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Addresses: S. K. Herzog, Foundation for Tropical Research and Exploration, P.O. Box 74431, Davis, CA 95617, U.S.A.; current address: Langeooger Str. 8, 26419 Schortens, Germany. Dr. M. Kessler, Systematisch-Geobotanisches Institut, Untere Karspüle 2, 37073 Göttingen, Germany. S. Maijer, Ter Meulenplantsoen 20, 7524CA Enschede, The Netherlands. S. Hohnwald, Siegstr. 8, 47051 Duisburg, Germany.

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## Appendix

The following list includes all species observed at 11 of the 12 survey sites described in the text (site 12, Río Pilcomayo, is not included): 1 Consata, 2 Yolosillas, 3 Las Mercedes, 4 Miguillas, 5 Huara, 6 Inquisivi, 7 Río Caine, 8 San Juan del Potrero, 9 Novillero, 10 Masicurí and 11 Río Azero. The habitat(s) in which each species was observed are abbreviated as follows: D=dry forest; E=evergreen forest (including gallery forest); A=predominantly agricultural areas; R=directly at rivers; O=flying over the survey area. No specimens were collected. Relative abundances were not estimated due to the relatively short time spent at each site.

*Tinamus major* 10E. *Crypturellus obsoletus* 3D. *Crypturellus undulatus* 2DE, 8D. *Crypturellus atropicillus* 3D, 4D. *Crypturellus tataupa* 2DE, 3D, 4D, 8D, 10DE. *Nothoprocta pentlandii* 6DA. *Phalacrocorax brasilianus* 2O. *Tigrisoma fasciatum* 2R. *Ardea cocoi* 10R. *Ardea alba* 10R. *Egretta thula* 7R, 10R. *Nycticorax nycticorax* 9O. *Theristicus caudatus* 7A. *Coragyps atratus* 3O, 8O, 10O, 11O. *Cathartes aura* 1O, 2O, 3O, 4O, 5O, 6O, 7O, 8O, 9O, 10O, 11O. *Vultur gryphus* 5O, 6O, 7O, 8O, 11O. *Sarcoramphus papa* 11O. *Merganetta armata* 2R, 6R. *Chondrohierax uncinatus* 2O, 3D, 4O, 5D. *Elanoides forficatus* 3O. *Ictinia plumbea* 3D, 4O. *Accipiter bicolor* 9O. *Geranoaetus melanoleucus* 1D, 3O, 5O, 6O, 7O, 8O, 9O, 11O. *Harpyhaliaetus solitarius* 10O, 11O. *Buteo magnirostris* 1DE, 2O, 3D, 4D, 5DE, 6A, 7D, 8D, 9D, 10DE, 11DE. *Buteo albigula* 6O. *Buteo brachyurus* 3O, 11O. *Buteo albicaudatus* 8O. *Buteo polyosoma* 9O. *Buteo albonotatus* 1O. *Phalcoenoides megalopterus* 6O. *Polyborus plancus* 8D, 11E. *Falco sparverius* 1D, 3D, 5DE, 6DE, 7D. *Falco femoralis* 11O. *Falco ruficularis* 2E, 5D, 10E. *Falco peregrinus* 5O, 7O. *Ortalis guttata* 1DE, 2E, 3D, 10D. *Penelope montagnii* 9D. *Penelope jacquacu* 3D. *Pipile pipile* 10D. *Aramides cajanea* 2E, 3E, 10E. *Charadrius collaris* 7R. *Actitis macularia* 3R, 6R. *Columba maculosa* 7O. *Columba fasciata* 3D, 5D, 6D. *Columba plumbea* 1D, 3D. *Zenaidura macroura* 1D, 7DA. *Columbina talpacoti* 10A, 11E. *Columbina picui* 1D, 3A, 5DE, 6DA, 7DA, 10DEA. *Claravis mondetoura* 3D. *Leptotila verreauxi* 1DE, 2DEA, 3D, 4D, 5DE, 6DE, 8D, 10DEA, 11DE. *Leptotila megalura* 3D, 4D, 5DE, 6DE, 7DA, 8D, 9DE, 11D. *Ara militaris* 10O. *Ara rubrogenys* 7O, 9O. *Ara auricollis* 10E, 11DE. *Ara severa* 10O. *Arainga acuticaudata* 7DA, 8D. *Arainga mitrata* 1D, 2O, 3D, 4D, 5DE, 6D, 7D, 9DE, 11DE. *Pyrrhura molinae* 2DE, 3D, 4D, 5DE, 6DE, 10DE, 11D. *Myiopsitta monachus* 7DA. *Bolborhynchus aymara* 6D, 7D. *Brotogeris versicolurus* 1D,

6DE, 7O, 9O, 10O, 11O. *Pionus menstruus* 1O, 2O, 3D. *Pionus maximiliani* 8D, 10O, 11O. *Pionus* sp. 4O. *Amazona aestiva* 7O, 8D, 10O, 11O. *Piaya cayana* 1D, 2DE, 3D, 4D, 5DE, 6D, 8D, 10E, 11DE. *Crotophaga ani* 7A, 10A. *Otus choliba* 4D, 6DA, 8D, 9D, 10E, 11D. *Otus hoyi* 11D. *Bubo virginianus* 6O. *Pulsatrix perspicillata* 3D, 10E. *Glaucidium brasilianum* 10D. *Glaucidium* sp. 2E. *Aegolius harrisi* 10D. *Nyctibius griseus* 4D. *Nyctidromus albicollis* 11D. *Caprimulgus rufus* 4D, 5D. *Caprimulgus longirostris* 9DE, 10ER. *Hydropsalis brasiliana* 8D. *Uropsalis lyra* 6O. *Cypseloides rutilus* 6O. *Streptoprocne zonaris* 6O, 8O. *Aeronatus montivagus* 5O. *Aeronautes anecolus* 6O, 7O, 9O. *Panyptila cayennensis* 10O. *Phaethornis superciliosus* 10E. *Phaethornis pretrei* 8D, 11D. *Campylopterus largipennis* 2E. *Colibri thalassinus* 2DE. *Colibri serrirostris* 6D. *Chlorostilbon mellisugus* 1DE, 3D, 4D, 5DE, 6DE. *Chlorostilbon aureoventris* 7DA, 8D, 9D, 11D. *Thalurania furcata* 10E. *Taphrosphilus hypostictus* 10E. *Amazilia chionogaster* 1D, 2DE, 3D, 4D, 5DE, 6DEA, 7A, 8D, 9DE, 10DE, 11DE. *Oreotrochilus adela* 7D. *Patagona gigas* 7D. *Sappho sparganura* 5D, 7D, 9D, 11D. *Heliomaster longirostris* 2D. *Calliphlox amethystina* 3D. *Acestrura mulsant* 2D. *Trogon collaris* 10E. *Trogon curucui* 2E, 3D, 4D, 5E. *Electron platyrhynchum* 3D. *Momotus momota* 3D, 4D, 5DE, 8D, 10DE, 11DE. *Ceryle torquata* 2ER, 10ER. *Chloroceryle amazona* 2ER. *Chloroceryle americana* 10ER, 11ER. *Nystalus chacuru* 1D, 6A, 10D. *Nystalus maculatus* 8D. *Monasa nigrifrons* 10E. *Pteroglossus castanotis* 3D. *Ramphastos tucanus* 3D. *Ramphastos toco* 10E, 11E. *Picumnus cirratus* 3D, 5D, 8D, 10D, 11D. *Picoides lignarius* 6D, 7D, 9D. *Veniliornis fumigatus* 4D, 5E. *Veniliornis frontalis* 5D, 11D. *Veniliornis* sp. 10E. *Piculus chrysochloros* 10E. *Piculus rubiginosus* 2E, 8D, 11D. *Colaptes melanochloros* 6DA, 9D. *Dryocopus lineatus* 3D, 4D, 5D. *Campophilus melanoleucos* 10DE, 11D. *Campophilus rubricollis* 4D. *Campophilus leucopogon* 8D, 9D. *Sittasomus griseicapillus* 3D, 4D, 5D, 8D, 10DE, 11D. *Xiphocolaptes promeropirhynchus* 3D, 10E. *Xiphocolaptes major* 10D, 11D. *Dendrocolaptes picumnus* 4D, 8D. *Xiphorhynchus guttatus* 10E. *Lepidocolaptes angustirostris* 7D, 8D, 9D, 11D. *Lepidocolaptes albolineatus* 3D. *Campylorhamphus trochilrostris* 4D, 5D. *Upucerthia harterti* 7DA, 8D. *Cinclodes fuscus* 5R, 7R, 9R, 11R. *Furnarius rufus* 6A, 7A, 8D, 9A, 10A. *Synallaxis azarae* 1DE. *Synallaxis frontalis* 5E, 6DEA, 8D, 10DE. *Poecilocerus scutatus* 3D, 10E, 11D. *Cranioleuca pyrrhophia* 8D, 9DE. *Cranioleuca*, unnamed species 6DEA. *Asthenes dorbignyi* 6DA. *Asthenes berlepschi* 1A. *Phacellodomus striaticeps* 6A, 8D. *Syndactyla rufosuperciliata* 11D. *Phylidor rufus* 10E. *Xenops rutilans* 10DE, 11D. *Batara cinerea* 11E. *Taraba major* 3D, 4D, 5DE, 10DE. *Thamnophilus doliatus* 2E, 3D, 4D, 5EA. *Thamnophilus aroyae* 2E. *Thamnophilus punctatus* 10DE. *Thamnophilus caerulescens* 1E, 5DE, 6DE, 8D, 9DE, 11D. *Thamnophilus ruficapillus* 11D. *Thamnophilus* sp. 4D. *Myrmotherula longicauda* 2E. *Herpsilochmus atricapillus* 10E. *Formicivora melanogaster* 10E. *Pyriglena leuconota* 3D, 4D, 6E. *Chamaeza campanisona* 11E. *Melanopareia maximiliani* 5D, 6A, 7D. *Phyllomyias burmeisteri* 5E. *Phyllomyias sclateri* 10E. *Zimmerius bolivianus* 4D. *Camptostoma obsoletum* 3D, 4D, 5D, 6DEA, 8D, 11D. *Phaeomyias murina* 6A, 8D. *Sublegatus modestus* 5D, 7D, 10D. *Suiriri suiriri* 7D, 9D, 10E. *Myiopagis gaimardii* 3D. *Myiopagis viridicata* 1E, 10E. *Elaenia obscura* 6EA. *Elaenia* sp. 3D, 8D. *Mecocerculus leucophrys* 9D. *Serpophaga cinerea* 2R, 3R. *Serpophaga munda* 5D, 6DE, 7D, 8D, 11D. *Stigmatura budytoides* 7DA, 8D, 9D. *Anairetes flavirostris* 6D, 7DA. *Leptopogon amaurocephalus* 2E, 3D, 10E. *Leptopogon superciliosus* 3D. *Phylloscartes ophthalmicus* 2E, 3D. *Phylloscartes ventralis* 11D. *Hemitricus margaritaceiventris* 1D, 2D, 3D, 4D, 5D, 6D, 8D, 10DE, 11D. *Todirostrum cinereum* 10E. *Tolmomyias sulphurescens* 2E, 3D, 4D, 10E. *Myiophobus fasciatus* 2E, 5E, 6DEA. *Pyrrhomyias cinnamomea* 6E. *Contopus fumigatus* 5E, 6E. *Contopus cinereus* 10E. *Empidonax* sp. 3D. *Lathrotriccus euleri* 3D. *Cnemotricus fuscatus* 5D. *Sayornis nigricans* 1R, 2R, 3R, 5R, 6ER, 10R, 11R. *Pyrocephalus rubinus* 3D. *Ochthoeca leucophrys* 9D. *Muscisaxicola maculirostris* 5R, 7R. *Knipolegus aterrimus* 3D, 4D, 5DE, 6A, 7DA, 8D, 9DE, 11DE. *Colonia colonus* 10E. *Satrapa icterophrys* 3D. *Hirundinea ferruginea* 3D, 5D, 6DE, 7DA, 8D, 9DE, 10D. *Machetornis rixosus* 10A. *Castornis rufa* 2E, 3D, 4D, 5D, 10E. *Myiarchus swainsoni* 11D. *Myiarchus ferax* 3D. *Myiarchus cephalotes* 2DE. *Myiarchus tyrannulus* 3D, 4D, 5DE, 6D, 11D. *Myiarchus* sp. 8D, 10E. *Pitangus sulphuratus* 7A, 9DEA, 10EA, 11DE. *Myiozetetes similis* 2E. *Conopias cinchoneti* 2E, 6ER. *Myiodynastes chrysocephalus* 3D. *Myiodynastes maculatus* 2E, 3D, 4D, 5D. *Legatus leucophaius* 2E. *Tyrannus melanocholicus* 1DE, 2E, 3D, 5DE, 6EA, 10EA, 11DE. *Xenopsaris albinucha* 10E. *Pachyramphus viridis* 10E. *Pachyramphus castaneus* 3D. *Pachyramphus polychopterus* 3D. *Phytotoma rutila* 7DA, 9A. *Notiochelidon cyanoleuca* 2E, 3D, 5E, 7A, 9AO, 10E. *Atticora fasciata* 3DR. *Thryothorus gembarbis* 1DE, 2DE, 10DE. *Troglodytes aedon* 2DEA, 3DA, 4D, 5DEA, 6DE, 7DA, 8D, 9DEA, 11DE. *Cinclus leucocephalus* 1R. *Poliotilta dumicola* 7DA, 8D, 9D, 11D.